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January 15, 2004

| | |
|--|---------------------------|
| CERTIFICATE OF MAILING 37 C.F.R 1.8 | |
| I hereby certify that this correspondence is being deposited with the U.S. Postal Service with sufficient postage as First Class Mail in an envelope addressed to: MS DD, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450, on the date below: | |
| January 15, 2004 | <i>Michael C. Barrett</i> |
| Date | Michael C. Barrett |

MS DD

Commissioner for Patents
P.O. Box 1450
Alexandria, Virginia 22313-1450

RE: *U.S. Patent Application No. 10/725,130 entitled "METHODS AND SYSTEMS FOR MEASURING LOCAL SCATTERING AND ABERRATION PROPERTIES OF OPTICAL MEDIA" – Raymond A. Applegate and Larry N. Thibos*
Our reference: UTSK:357USD1
Client reference: 2000-1-UTIL1

Sir:

Enclosed for filing in the above-referenced patent application is an Information Disclosure Statement and Form PTO-1449.

No fees are believed to be due in connection with the filing of this Information Disclosure Statement, however, should any fees under 37 C.F.R. §§ 1.16 to 1.21 be deemed necessary for any reason relating to the enclosed materials, the Commissioner is authorized to deduct the appropriate fees from Fulbright & Jaworski Deposit Account No.: 50-1212/UTSK:357USD1.

Please date stamp and return the enclosed postcard evidencing receipt of these materials.

Respectfully submitted,

Michael C. Barrett

Michael C. Barrett
Reg. No. 44,523

Encl: as noted



PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of:
Raymond A. Applegate
Larry N. Thibos

Serial No.: 10/725,130

Filed: December 1, 2003

For: METHODS AND SYSTEMS FOR
MEASURING LOCAL SCATTERING
AND ABERRATION PROPERTIES OF
OPTICAL MEDIA

Group Art Unit: Unknown

Examiner: Unknown

Atty. Dkt. No.: UTSK:357USD1

CERTIFICATE OF MAILING
37 C.F.R. 1.8

I hereby certify that this correspondence is being deposited with the U.S. Postal Service with sufficient postage as First Class Mail in an envelope addressed to: MS DD, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450, on the date below:

January 15, 2004

Date

Michael C. Barrett

Michael C. Barrett

INFORMATION DISCLOSURE STATEMENT

MS DD

Commissioner for Patents
P.O. Box 1450
Alexandria, Virginia 22313-1450

Sir:

In compliance with the duty of disclosure under 37 C.F.R. § 1.56, it is respectfully requested that this Information Disclosure Statement be entered and the documents listed on attached Form PTO-1449 be considered by the Examiner and made of record.

In accordance with 37 C.F.R §§ 1.97(g), (h), this Information Disclosure Statement is not to be construed as a representation that a search has been made, and is not to be construed to be an admission that the information cited is, or is considered to be, material to patentability as defined in 37 C.F.R. § 1.56(b).

The present Information Disclosure Statement is being filed prior to the receipt of a first Official Action reflecting an examination on the merits, and hence is believed to be timely filed in accordance with 37 C.F.R. § 1.97(b). No fees are believed to be due in connection with the filing of this Information Disclosure Statement, however, should any fees under 37 C.F.R. §§ 1.16 to 1.21 be deemed necessary for any reason relating to these materials, the Commissioner is authorized to deduct the appropriate fees from Fulbright & Jaworski Deposit Account No.: 50-1212/UTSK:357USD1.

This application is a divisional application of Serial No. 09/818,996, filed March 27, 2001 and is relied upon for an earlier filing date under 35 U.S.C. § 120. In accordance with Rule 37 C.F.R. § 1.98(d) copies of the listed documents are not enclosed as they have been previously cited by or submitted to the Patent and Trademark Office in prior application Serial No. 09/818,996.

Applicants respectfully request that the listed documents be made of record in the present case.

Respectfully submitted,



Michael C. Barrett
Reg. No. 44,523
Attorney for Applicants

FULBRIGHT & JAWORSKI L.L.P.
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Date: January 15, 2004

Form PTO-1449 (modified)

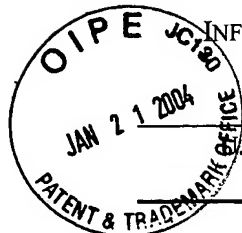
Atty. Docket No.
UTSK:357USD1Serial No.
10/725,130

List of Patents and Publications for Applicant's

Applicant
Raymond A. Applegate
Larry N. ThibosFiling Date:
December 1, 2003Gr up:
Unknown

INFORMATION DISCLOSURE STATEMENT

(Use several sheets if necessary)

U.S. Patent Documents
See Page 1Foreign Patent Documents
See Page 1Other Art
See Page 1

U.S. Patent Documents

| Exam. Init. | Ref. Des. | Document Number | Date | Name | Class | Sub Class | Filing Date of App. |
|-------------|-----------|-----------------|----------|-------------------------|-------|-----------|---------------------|
| | A1 | 5,579,063 | 11/26/96 | Magnante <i>et al.</i> | 351 | 211 | 10/11/94 |
| | A2 | 5,777,719 | 7/7/98 | Williams, <i>et al.</i> | 351 | 212 | 12/23/96 |
| | A3 | 6,086,204 | 7/11/00 | Magnante | 351 | 212 | 9/20/99 |
| | A4 | 6,199,986 | 3/13/01 | Williams <i>et al.</i> | 351 | 221 | 10/21/99 |
| | A5 | 6,273,566 | 8/14/01 | Kobayashi <i>et al.</i> | 351 | 221 | 9/28/00 |
| | A6 | 6,429,415 | 8/6/02 | Rhoads | 250 | 201.9 | 12/26/01 |
| | A7 | 6,439,720 | 8/27/02 | Graves <i>et al.</i> | 351 | 211 | 1/25/01 |

Foreign Patent Documents

| Exam. Init. | Ref. Des. | Document Number | Date | Country | Class | Sub Class | Translation Yes/No |
|-------------|-----------|-----------------|------|---------|-------|-----------|--------------------|
| | | | | | | | |

Other Art (Including Author, Title, Date Pertinent Pages, Etc.)

| Exam. Init. | Ref. Des. | Citation |
|-------------|-----------|--|
| | C1 | Liang and Williams, "Aberrations and retinal image quality of the normal human eye," <i>J. Opt. Soc. Am. A.</i> , 14(11):2873-2883, 1997. |
| | C2 | Liang <i>et al.</i> , "Objective measurement of wave aberrations of the human eye with the use of a Hartmann-Shack wave-front sensor," <i>J. Opt. Soc. Am. A.</i> , 11(7):1949-1957, 1994. |
| | C3 | Liang <i>et al.</i> , "Supernormal vision and high-resolution retinal imaging through adaptive optics," <i>J. Opt. Soc. Am. A.</i> , 14(11):2884-2892, 1997. |
| | C4 | Pratt, Digital Image Processing, Second Edition, Wiley Interscience, 1991, Chapter 12. |
| | C5 | Primot <i>et al.</i> , "Deconvolution from wave-front sensing: a new technique for compensating turbulence-degraded images," <i>J. Opt. Soc. Am.</i> , 7:1598, |

25370948.1

EXAMINER:

DATE CONSIDERED:

EXAMINER: INITIAL IF REFERENCE CONSIDERED, WHETHER OR NOT CITATION IS IN CONFORMANCE WITH MPEP609; DRAW LINE THROUGH CITATION IF NOT IN CONFORMANCE AND NOT CONSIDERED. INCLUDE COPY OF THIS FORM WITH NEXT COMMUNICATION TO APPLICANT.

Form PTO-1449 (modified)

Atty. Docket No.

UTSK:357USD1

Serial No.

10/725,130

List of Patents and Publications for Applicant's

Applicant

Raymond A. Applegate

Larry N. Thibos

INFORMATION DISCLOSURE STATEMENT

(Use several sheets if necessary)

Filing Date:

December 1, 2003

Group:

Unknown

Patent Documents

See Page 1

Foreign Patent Documents

See Page 1

Other Art

See Page 1



Other Art (Including Author, Title, Date Pertinent Pages, Etc.)

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|-------------|-----------|---|
| | C6 | Roorda and Williams, "The arrangement of the three cone classes in the living human eye," <i>Nature</i> , 397:520-522, 1999. |
| | C7 | Salmon <i>et al.</i> , "Comparison of the eye's wave-front aberration measured psychophysically and with the Shack-Hartmann wave-front sensor," <i>J. Opt. Soc. Am. A.</i> , 15(9):2457-2465, 1998. |
| | C8 | Smith, "Image Evaluation," Modern Optical Engineering, Second Edition, McGraw-Hill, 1990, Chapter 11. |
| | C9 | Thibos and Hong, "Clinical Applications of the Shack-Hartmann Aberrometer," <i>Optometry and Vision Science</i> , 76(12):817-825, 1999. |

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